

You can't fix what you can't see.

Painting the Picture of Operational Excellence

Kurt Kinder

Alaska Airlines Vice President of Maintenance & Engineering September 7, 2017





THE FACE ON THE TAIL

Our Trophy Case













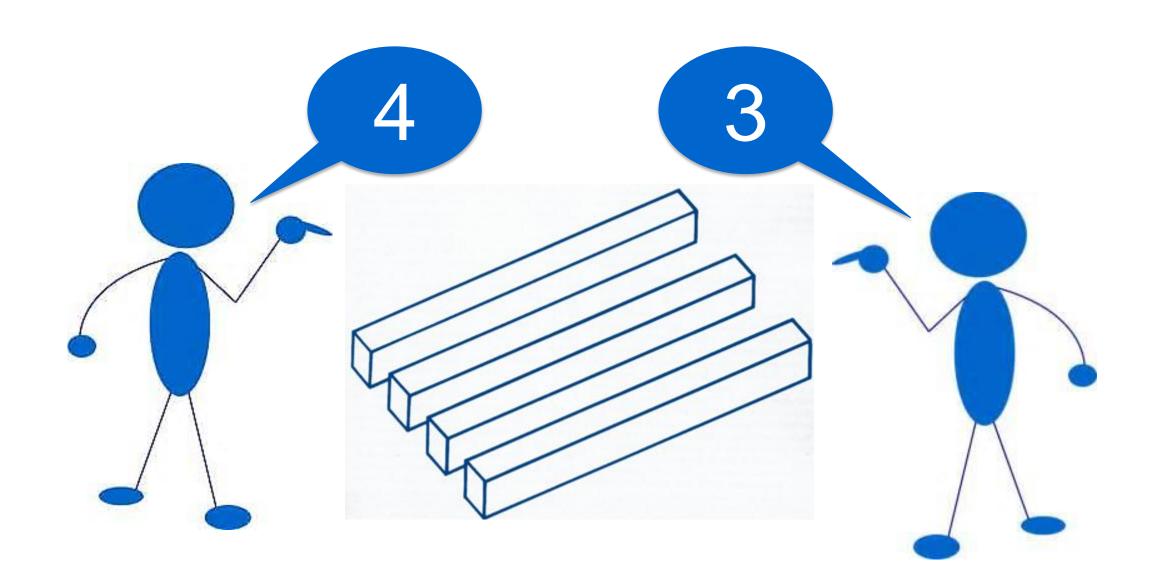


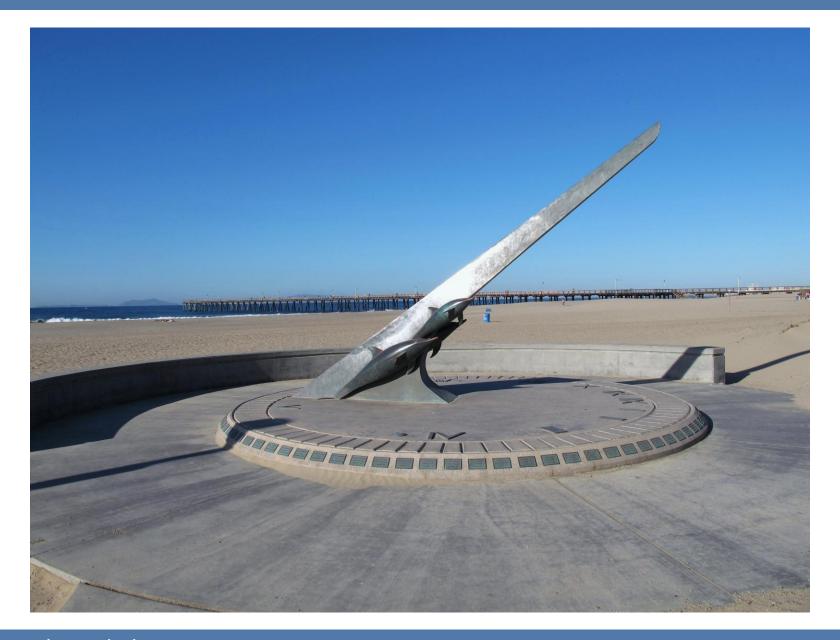




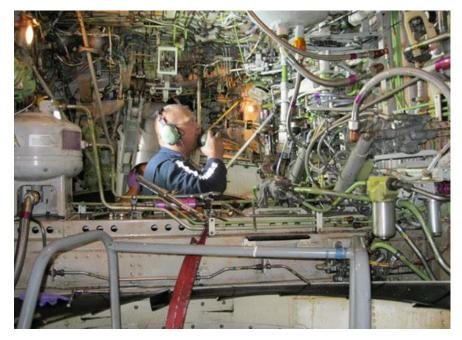
WALL STREET JOURNAL







Flight 261 Memorial Sundial









Aircraft Maintenance 101

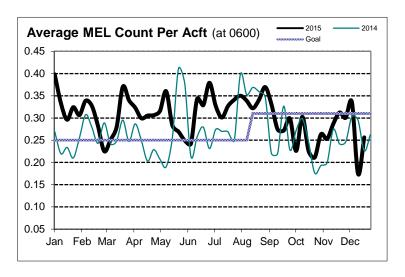
Partnering with Goldratt Consulting

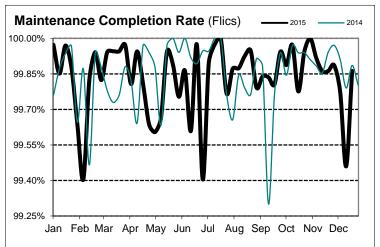
Preparing for business needs of a growing fleet: 40-50% by 2021

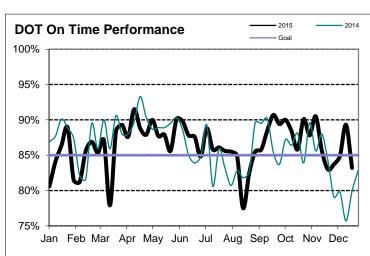
Initial Objectives/Assumptions:

- Robust data-driven processes needed
- Limited data/metrics for managers to act on
- Unidentified system-wide bottlenecks
- Underutilized station capabilities



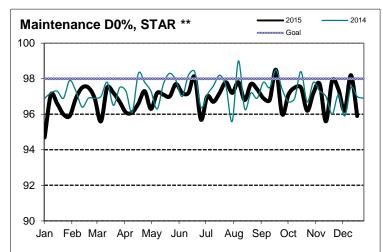


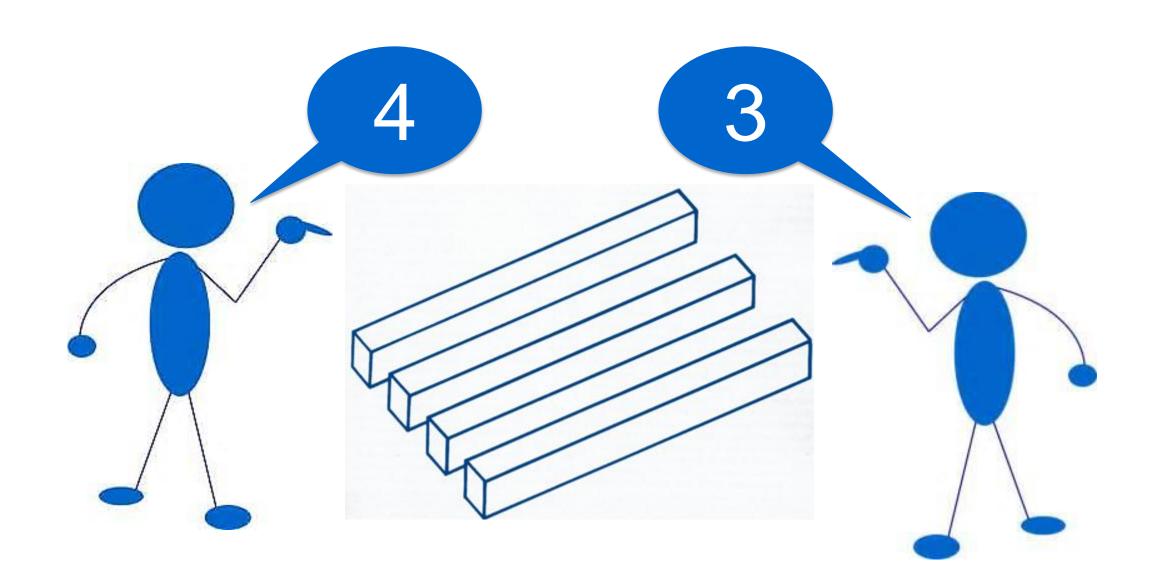




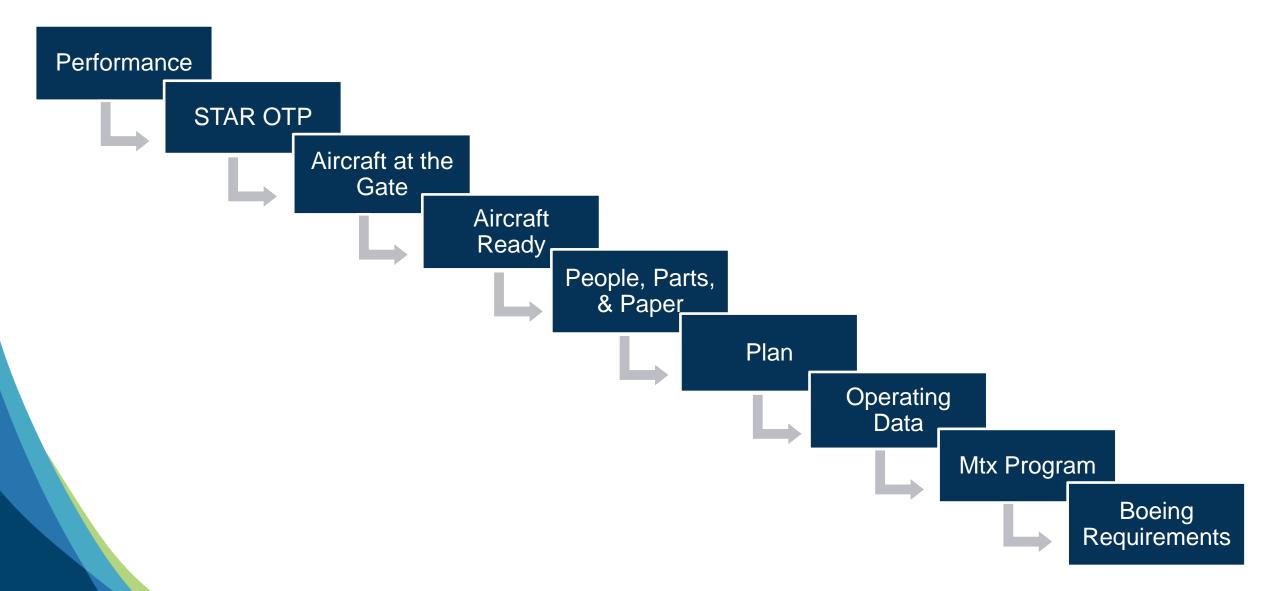
Picture of Performance 2014/2015

Line Maintenance





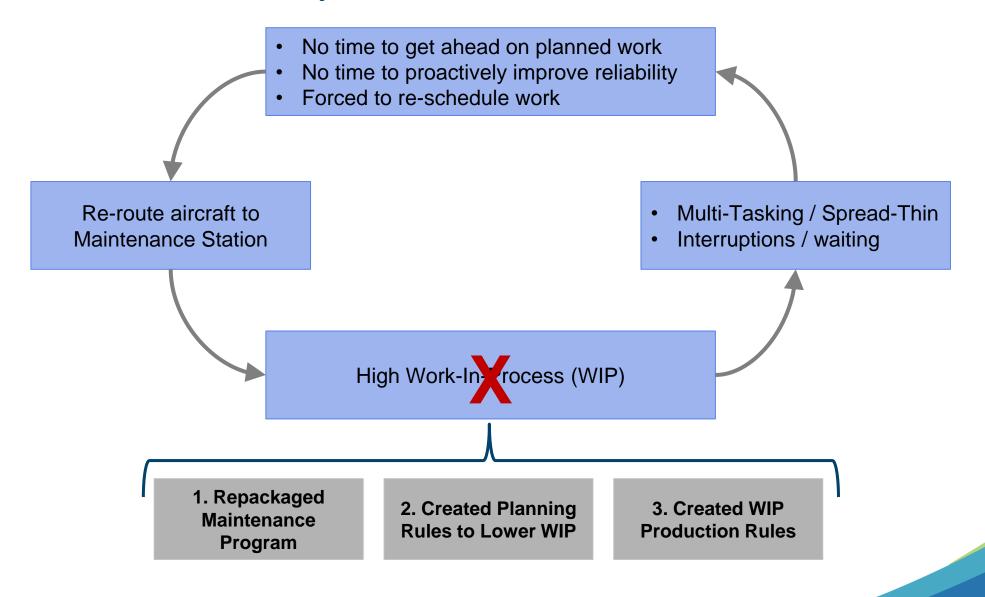
What is driving our performance?



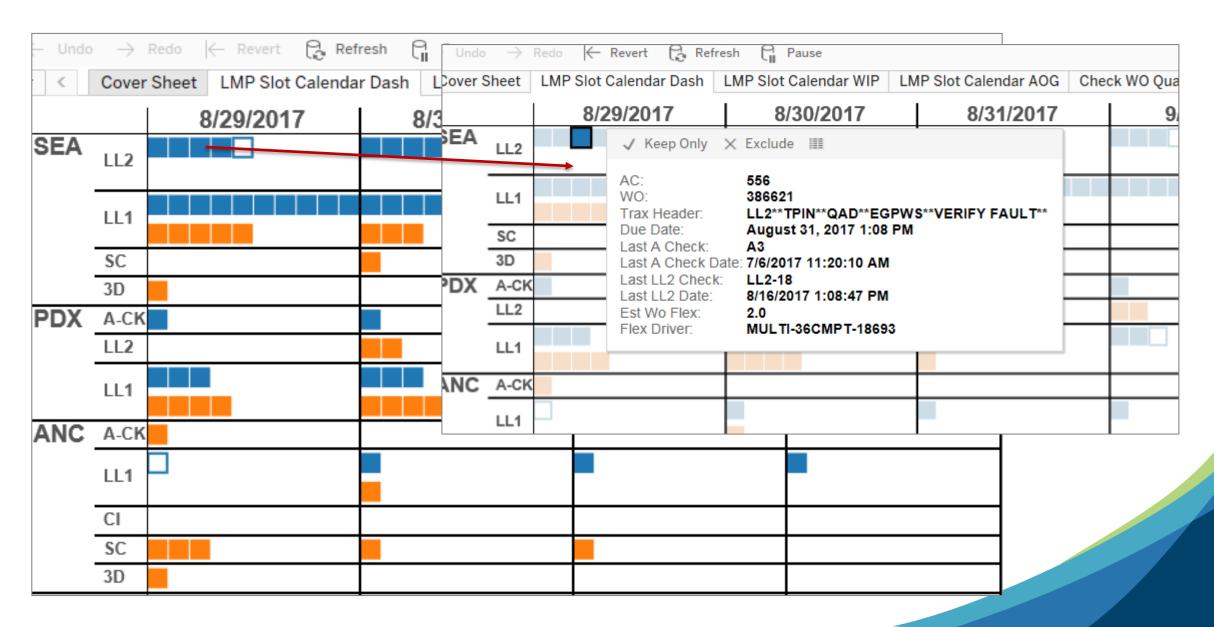
Adding Color to Our Performance Data



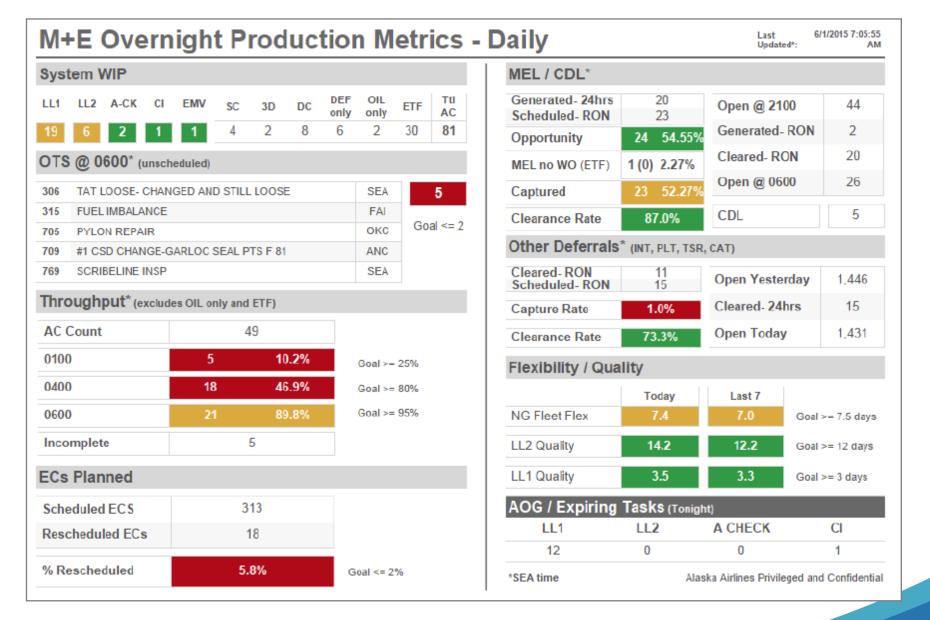
Cause and Effect Cycle



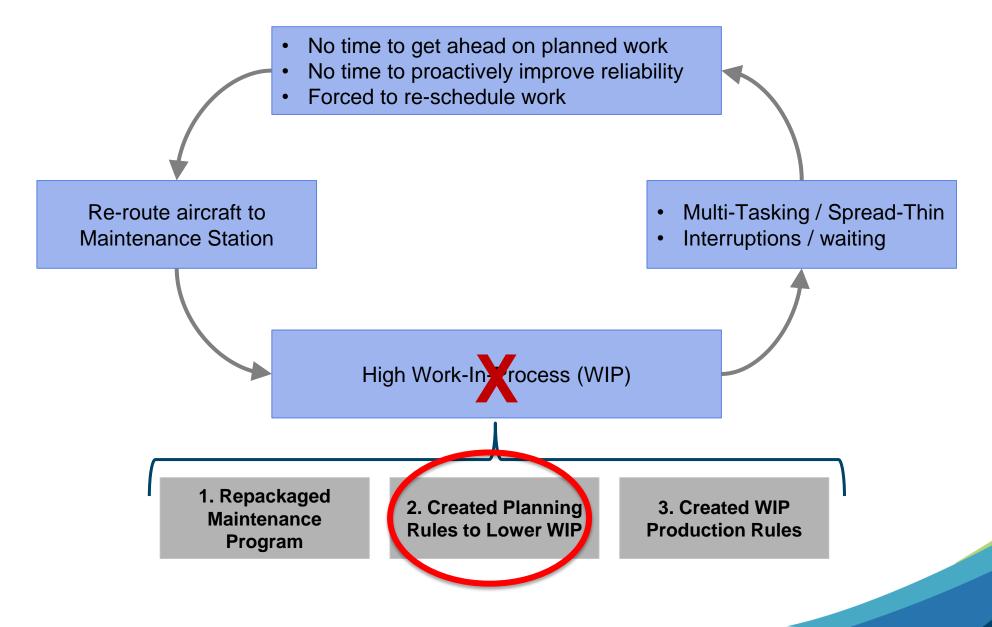
Creating Tools to Paint the Picture



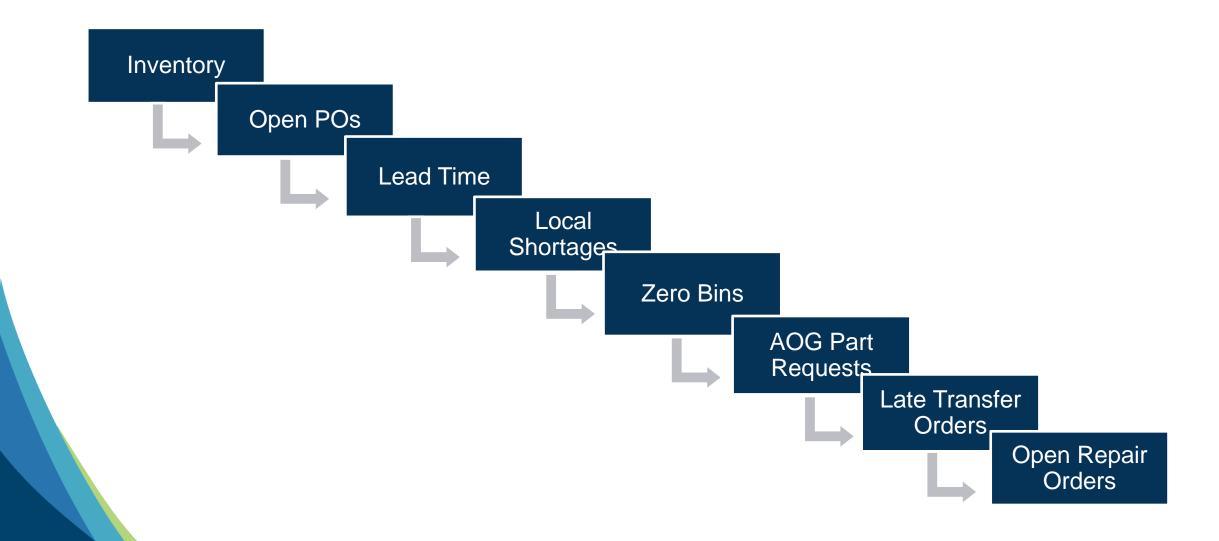
Paint the Micro Picture: Overnight Dashboard



Lowering WIP Wasn't Enough



What drives part availability?



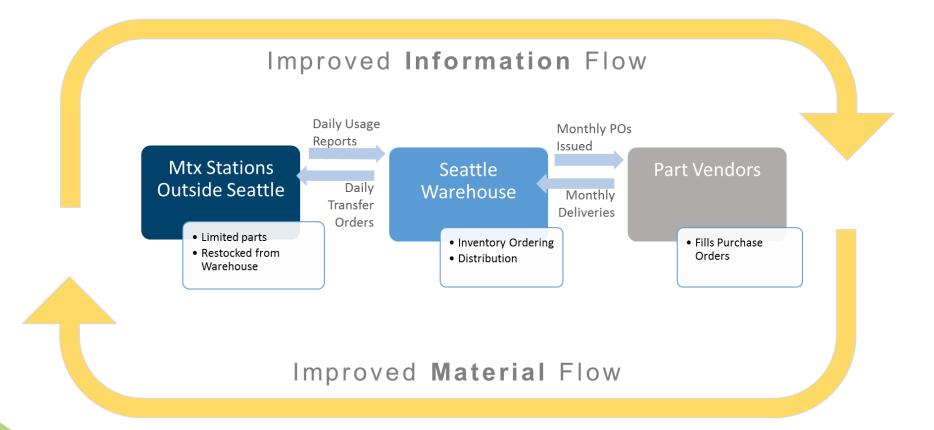
Reduce Shortages AND Reduce Inventory

Traditional Approach: 1. Improve Forecast Accuracy

2. PUSH Inventory to Stations

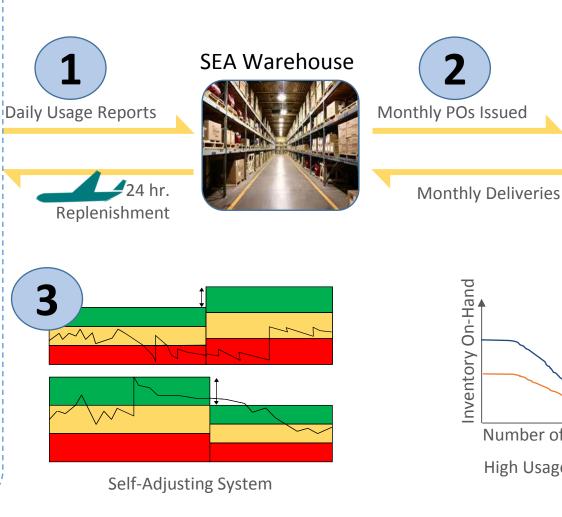
New Approach: 1. Improve FLOW (cut time between usage & restocking)

2. PULL based on consumption

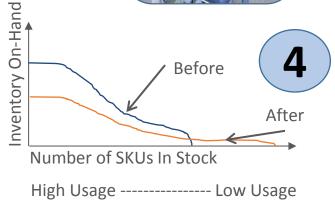


Mtx Stations 2 Week Stock 2 Week Stock 2 Week Stock 2 Week Stock 2 Week Stock

New Approach: Pull System

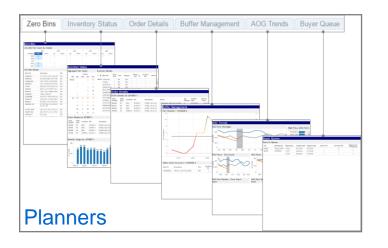






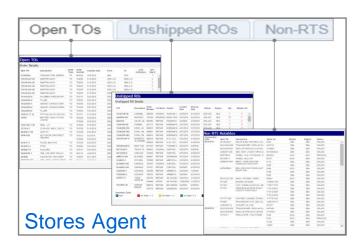
Role-Based Dashboards

(Synchronizing all roles to same priorities)







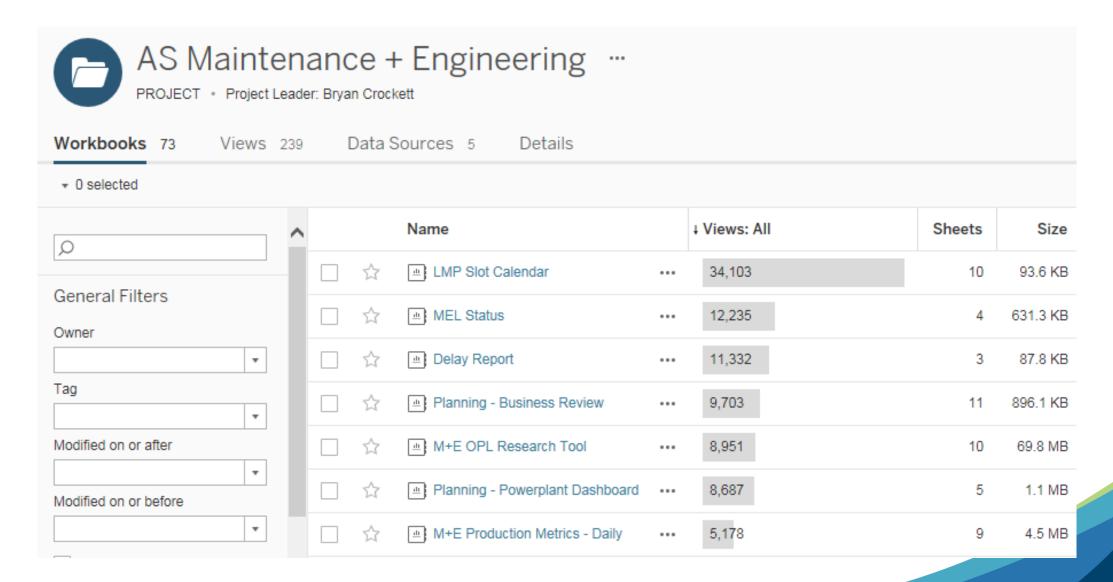


Management Dashboard

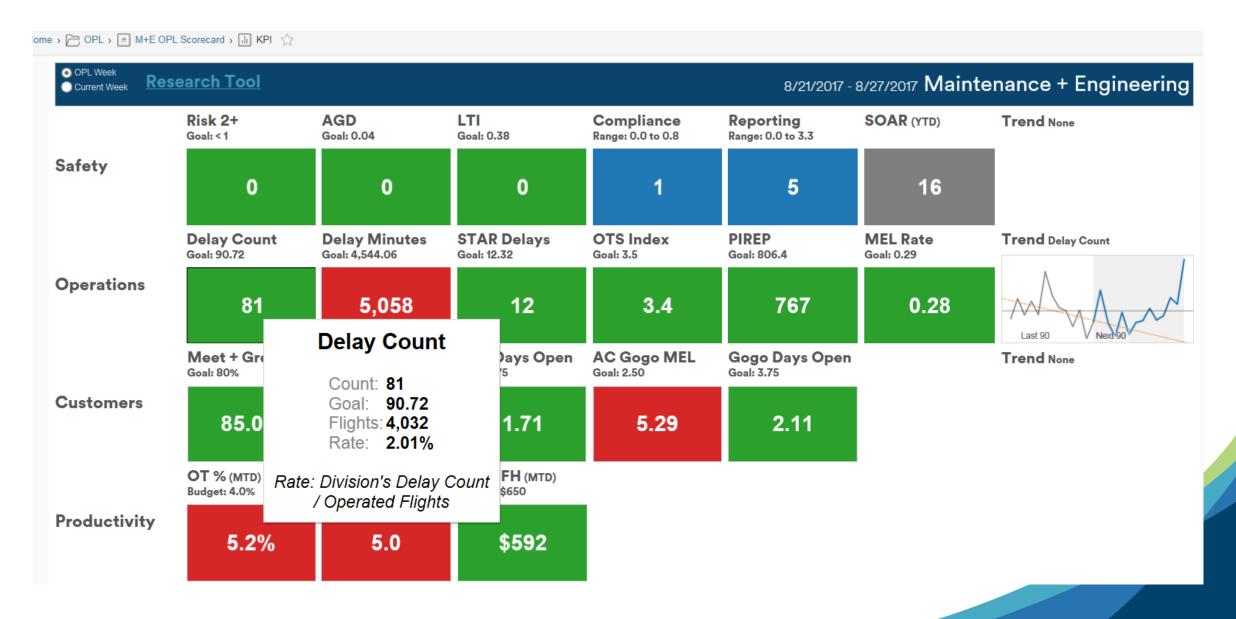
3 Years to Green



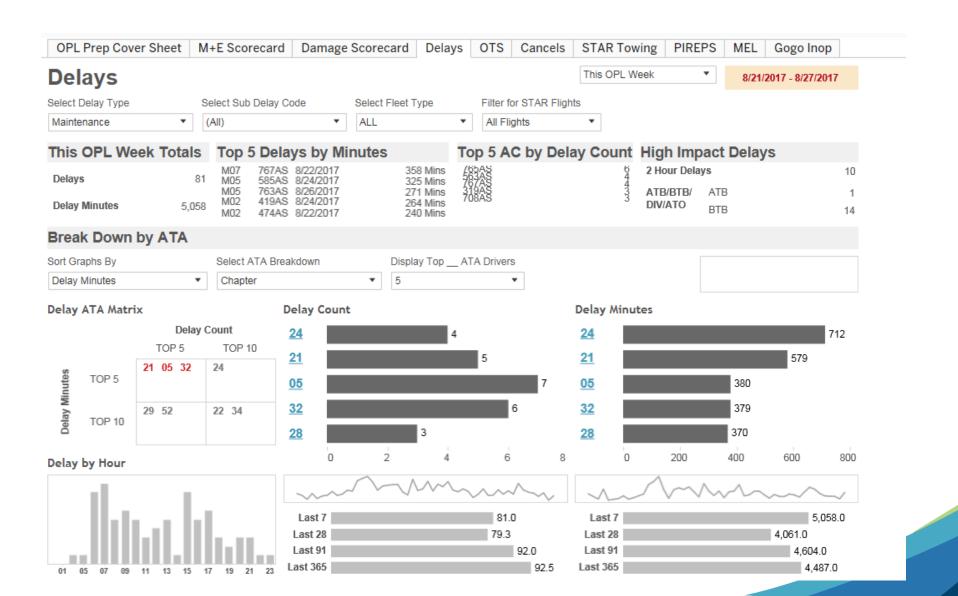
Learning to Use Data Visualization Every Day



OPL Scorecard Research Tool



OPL Scorecard Research Tool – Delay Breakdown



The Data Will Set You Free

- Don't hide behind regulations
- Embrace the data...no matter how good or bad
- Every situation can be substantially improved

